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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/829,286	04/22/2004	Ginning Hu	MR1035-1455	7248
4586 7.	590 07/06/2006		EXAMINER	
ROSENBERG, KLEIN & LEE 3458 ELLICOTT CENTER DRIVE-SUITE 101			GEORGE, PATRICIA ANN	
		ART UNIT	PAPER NUMBER	
	,		1765	

DATE MAILED: 07/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	10/829,286	HU, GINNING					
Office Action Summary	Examiner	Art Unit					
	Patricia A. George	1765					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence add	ress -				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ Responsive to communication(s) filed on 03 M	<u>ay 2006</u> .						
2a) This action is FINAL . 2b) ☑ This	action is non-final.						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) 43is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) is/are rejected.							
7)⊠ Claim(s) <u>10</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	152)				

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group II in the reply filed on 5/3/2006 is acknowledged.

Claims 1-7 canceled from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected group, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 5/3/06.

Examiner would like to thank applicants' representative pointing out the typographical error made in the office action filed 04/04/2006, which recited group II consisting of claims 11-15. The correction to the record, which reflected in fact claims 8-15 are directed toward methods, of group II, is appreciated.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 8-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claim language "acidic solution without halogen ion and hydrogen peroxide 5~20 wt%" is unclear because it could be interpreted to mean - -;

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5~20 wt % acidic solution, that has no halogen ions or hydrogen peroxide; - -OR - -; 5~20 wt% acidic solution and hydrogen peroxide, with no halogen ion; - - . All claims depending from claim 8 are also rejected.

Claims 11-12, 14 and 15 all fail to use proper Markush language.

Claim Objections

Claim 10 is objected to because of the following informalities: It is not clear if the limitation that follows the term "preferably' further limits the claim, or is even required by the claim. Appropriate correction is required.

Allowable Subject Matter

Claims 8-15 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

The following is an examiner's statement of reasons for allowable subject matter:

Prior art does not disclose or suggest roughening the etched copper/copper alloy
surface with a surface bonding promoter comprising: 0.1-20 wt% copper oxidant;
5-20 wt% acidic solution with no halogen ion or hydrogen peroxide; and 0.001-10 wt%
nonionic compound having amino/CONH chains. Any comments considered
necessary by applicant must be submitted no later than the payment of the issue fee
and, to avoid processing delays, should preferably accompany the issue fee. Such

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submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia (Patty) George whose telephone number is (571)272-5955. The examiner can normally be reached on weekdays between 7:00am

and 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nadine Norton can be reached on (571)272-1465. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Patricia A George

PAG 0606 Patricia A Ge Examiner

NAD.INE NORTON

SUPERVISORY. PATENT: EXAMINATE

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